

## ABSTRACT

The invention relates to electrical network communications engineering and can be used in systems for automatic data collection from intrusion protection and fire alarm sensors, electric, heat, water, gas meters and fiscal memory data devices for cash registers. The technical result is significant reduction of power consumption in transmitters of system slave units and/or expansion of its operation. A unique random or pseudo-random set of initial phase differences for the adjacent harmonic pairs is used to encode each character of transmitted data, and these sets of initial phase differences are selected in such a way as to minimize crest factor of a total signal. In case of fire alarm sensor operation only one character which uniquely

identifies the actuated sensor location is sufficient to be conveyed to the alarm prevention terminal, this character, as a rule, being either a conditional number or agreed address assigned in advance to the sensor in question. 4 dB less than that of proper sine, is very high. While developing the system, different signal tables picked out according to the present method are saved in each slave unit 2. A signal from a slave use of the present invention:

a means realized according to the present invention is intended for use in the field of